

Form PTO-1449

Attorney Docket: GD7240US.CIP

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Jiangtao Wang et al.

Serial No: 09/921,074

Group No.: 3729

Filed: August 2, 2001

Examiner: Not yet known

For: RESISTOR COMPONENT WITH MULTIPLE LAYERS  
OF RESISTIVE MATERIAL

Assistant Commissioner for Patents  
Washington, DC 20231

U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class
<u>le</u>	2,662,957	12/15/1953	P. Eisler	201/73

Foreign Patent Documents

Examiner Initials	Document Number	Country	Class	Translation (Yes/No)
<u>le</u>	690,691	England	36, 37 and 140	yes
<u>le</u>	EP 0 007 598	Europe	H 01 C 7/00	yes

Examiner:

Date Considered:

le

9/5/03

\*\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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INFORMATION DISCLOSURE CITATION

In re application of: Jiangtao Wang et al.

Serial No: 09/921,074

Group No.: 3724

Filed: August 2, 2001

Examiner: Unknown

For: RESISTOR COMPONENT WITH MULTIPLE  
LAYERS OF RESISTIVE MATERIAL

Assistant Commissioner for Patents  
Washington, DC 20231

U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class
<u>W</u>	3,833,410	09/03/1974	Ang et al.	117/227
<u>K</u>	5,661,902	09/02/1997	Katchmar	29/840

Foreign Patent Documents

Examiner Initials	Document Number	Country	Date of Publication	Class	Translation (Yes/No)
<u>W</u>	401298796A	Japan	12/01/1989	HO5K 003/46	YES (Abstract)

Examiner:

Date Considered:

W

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LAYERS OF RESISTIVE MATERIAL

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U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class
<u>W</u>	4,503,112	03/05/1985	Konicek	428/216

Foreign Patent Documents

Examiner Initials	Document Number	Country	Date of Publication	Class	Translation (Yes/No)
<u>W</u>	0 452 812	Europe	10/23/1991	H01C 17/12	YES
<u>W</u>	0 540 820	Europe	05/12/1993	H01C 17/06	NO

Examiner:

Date Considered:

W

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U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class
ES	3,368,919	02/13/1968	R. Casale et al.	117/217
	3,621,442	11/16/1971	Racht et al.	338/309
	3,742,120	06/26/1973	Keister et al.	174/68.5
	3,849,757	11/19/1974	Khammous et al.	338/320
	4,164,607	08/14/1979	Thiel et al.	428/621
	4,203,025	05/13/1980	Nakatani et al.	219/216
	4,396,900	08/02/1983	Hall	338/309
	4,482,882	11/13/1984	Luder et al.	338/34
	4,585,537	04/29/1986	Nakayama et al.	204/192D
	4,617,575	10/14/1986	Fuyama et al.	346/76 PH
	5,128,008	07/07/1992	Chen et al.	204/192.15
	5,172,473	12/22/1992	Burns et al.	29/885
	5,366,814	11/22/1994	Yamanishi et al.	428/607
	5,389,446	02/14/1995	Yamanishi et al.	428/472



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Examiner Initials	Document Number	Date	Name	Class
				TECHNOLOGY CENTER R3700
<u>Ken</u>	5,456,817	10/10/1995	Hino et al.	205/125
<u>f</u>	5,552,234	09/03/1996	Kawasumi	428/633
<u>f</u>	5,700,362	12/23/1997	Yano et al.	205/191
<u>f</u>	5,709,957	01/20/1998	Chiang et al.	428/615
<u>f</u>	5,863,666	01/26/1999	Merchant et al.	428/544
<u>f</u>	5,885,436	05/23/1999	Ameen et al.	205/194
<u>f</u>	5,908,544	06/01/1999	Lee et al.	205/316
<u>K</u>	6,132,589	10/17/2000	Ameen et al.	205/177

Foreign Patent Documents

Examiner Initials	Document Number	Country	Class	Translation (Yes/No)
<u>Ken</u>	/08235540-ABSTRACT	Japan	G11B 5/39 H01F	YES
<u>f</u>	/ 58095301-ABSTRACT	Japan	G02B 5/08	YES
<u>f</u>	JP406120630A	Japan	H05K 1/09	YES
<u>f</u>	JP04268858	Japan	H05K 1/09; H015 5/14	YES
<u>K</u>	JP05275817A	Japan	C23C 22/00	YES

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials	Document
<u>Ken</u>	/ U.S. Patent Application Serial No. 09/500,192 entitled: METHOD OF FORMING CHROMIUM COATED COPPER FOR PRINTED CIRCUIT BOARDS; Jiangtao Wang et al., filed on February 8, 2000, specification - 13 pages, drawings - 2 sheets.
<u>K</u>	/ U.S. Patent Application Serial No. 09/628,766 entitled: METHOD OF FORMING CHROMIUM COATED COPPER FOR PRINTED CIRCUIT BOARDS; Jiangtao Wang et al., filed on July 31, 2000, specification - 17 pages, drawings - 5 sheets.



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Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.) APR - 1 2002

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Initials

Document

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"Structure and Magnetic Properties of FE1-XNIX/CU Invar Superlattices," Tang et al., Journal of Applied Physics, US, American Institute of Physics, New York, volume 80, no. 4, August 15, 1996, pages 2327-2333, XP000633333.

loc

"Transmission Electron Microscope Study of Thin Cu-Ni Laminates Obtained by Vapor Deposition," Nakahara et al., International Conference on Metallurgical Coatings, San Diego, CA, US, 21-25 April 1980, volume 72, no. 2, pages 277-284, XP000993586.

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